UNITED STATES WILD BILL CREEK QUADRANGLE **OPEN FILE REPORT 79-792** DEPARTMENT OF THE INTERIOR MONTANA-WYOMING PLATE 9 OF 13 GEOLOGICAL SURVEY 7.5 MINUTE SERIES (TOPOGRAPHIC) (BEAR SKULL MOUNTAIN) 105° 30′ 45° 07′ 30″ 105° 22′ 30″ OPEN-FILE REPORT R 51 E R. 52 E. This report has not been edited for conformity with 20 U.S. Geological Survey editorial standards or 19 22 23 24 20 stratigraphic nomenclature. 0.39 0.33 **EXPLANATION** 1.25 1.47 4.31 4.84 NON-FEDERAL COAL LAND-Land for which the 2.86 2.43 Federal Government does not own the coal rights. 0.00 4.54 3.86 1 SL + STRIPPING-LIMIT LINE—Boundary for surface mining of the coal bed (in this quadrangle, the 200-foot overburden isopach). Arrows point toward the area 29 30 suitable for surface mining. Recovery factor of 85 per-25 29 26 cent within that area in this quadrangle. BOUNDARY OF COAL 5 FEET OR MORE THICK-0.05 Drawn along the outcrop of coal bed and/or the inferred contact between burned and unburned coal, and/or the 5-foot coal isopach. Arrows point toward area of coal 7.27 6.18 5 feet or more thick. R(85%) 0.15 0.13 0.02 0.02 0.28 0.24 POINT OF MEASUREMENT ON COAL BED 31 35 32 33 36 34 R(85%) 0.14 0.12 T. 8 S. T. 8 S. 0.81 2.50 0.69 2.94 T. 9 S. T. 9 S. 34-mile radius Point of measurement Indicated of coal bed resources 10 11 12 Inferred resources 15 14 13 17 18 17 2'30" DIAGRAM SHOWING COMPONENT AREAS OF IDENTIFIED COAL RESOURCES—Shows arcuate boundary lines enclosing areas of measured, indicated, and inferred coal resources. Boundaries of areas are dashed where projected from an adjacent quadrangle. 19 20 Areas of measured, indicated, or inferred resources 20 24 22 may be present on this map without their outer 23 boundaries being shown. (Measured resources) (Indicated resources) 4.84 4.11 (Inferred resources) IDENTIFIED COAL RESOURCES—Showing totals for Reserve Base (RB) and Reserves (R), in millions of short tons, for each section or part(s) of a section of Federal coal land within the stripping-limit line. Dash indicates no resources in that category. Reserve Base (RB) X the Recovery Factor (85 percent) = Reserves (R). (Measured resources) 27 29 30 28 26 25 0.44 (Indicated resources) 29 1.56 (Inferred resources) IDENTIFIED COAL RESOURCES-Showing totals for Reserve Base (RB), in millions of short tons, for each section or part(s) of a section of Federal coal land outside the stripping-limit line. Dash indicates no resources in that category. NOTE: Recovery factors have not been established for underground development of coal in this quadrangle. Therefore, Reserves (R) were not calculated for the coal bed in areas outside the stripping-limit line. To convert short tons to metric tons, multiply short tons by 0.9072.32 33 34 31 32 To convert miles to kilometers, multiply miles by 1.61. 35 To convert feet to meters, multiply feet by 0.3048. 105° 22′ 30″ Base map from U.S. Geological Survey, 1970 Compiled in 1977 SCALE 1:24 000 4000 3000 1 KILOMETER UTM GRID AND 1970 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET COAL RESOURCE OCCURRENCE MAP OF THE WILD BILL CREEK QUADRANGLE,

POWDER RIVER COUNTY, MONTANA AND CAMPBELL COUNTY, WYOMING BY COLORADO SCHOOL OF MINES RESEARCH INSTITUTE 1979

PLATE 9

AREAL DISTRIBUTION AND TONNAGE

MAP OF IDENTIFIED RESOURCES

OF THE BROADUS COAL BED